



CHARACTERISATION OF GENE
FUNCTION USING DOUBLE STRANDED

RNA INHIBITION

by Plactinck et al.

Serial No. 10/057,108

Docket No. D00590.70011.US

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FIG. 1.

pGN1

gagtgcacccatgtagcgtgtgaaataccgcacagatgcgtaaggagaaaataccgcatcaggcgaaattgtaaacgttaattt
tgtaaaattcgcgtaaatatttgttaaatcagctcatttttaaccaataggccgaaatcggcaaaatccctataaatcaaaagaat
agaccgagataggggtgagtggttccagtttgaacaagagtcactattaaagaacgtggactccaacgtcaaaggcgaa
aaaccgtctatcaggggcgatggcccactacgtgaaccatcacccaaatcaagtttttgcggtcgaggtgccgtaagctctaat
cggaaccctaaaggagagccccgatttagagcttgacggggaaagccggcgaaacgtggcgagaaagggaagggaagaaag
cgaaaggagcggggcgtagggcgctggcaaggttagcgggtcacgctgcggtgaaccaccacaccccgccgcttaatgcgc
cgctacagggcgctccattcgccattcaggctgcgcaactgttgggaaggggcgatcggtgcggggcctcttcgctattacgcca
gctggcgaaagggggatgtgctgcaaggcgattaagttgggtaacgccagggtttccagtcacgacgttgtaaacgacgg
ccagtgattgtaatacgaactactataggcggaattcgagctcggtaccggggatcctctagagtcgaaagcttctgcacctat
agtgagtcgtattacagcttgatattctatagtgtaacctaaatagcttgccgtaatacatggtcatagctgttctgtgtgaaattgt
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aattgcgttgcgctcactgcccgtttccagtcgggaacacgtgctgccagctgcattaatgaatcgcccaacgcgcggggag
aggcggttgcgtattggcgctcttccgcttctcgtcactgactcgtgcgctcggtcgttcggctgcggcgagcggtatcag
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ggccaggaaccgtaaaaaggccgctgtgctggcgttttcgataaggctccgccccctgacgagcatcacaaaaatcgacgct
caagtcagaggtggcgaaaccgacaggactataagataaccaggcggttccccctggaaagctccctcgtgcgctctcctgttc
cgacctgcccgttacgggatacctgtccgcttttctcccttcgggaagcgtggcgcttctcatagctcacgctgtaggtatctca
gttcggtgtaggtcgttcgctccaagctgggctgtgtgcacgaacccccgttcagcccgaccgctgcgcttatccggtacta
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atgagtaaaacttggtctgacagttaccaatgcttaatacagtgaggcacctatctcagcgatctgtctatttcggtcatcatagttgcct
gactccccgctgtagataactacgatacggggagggcctaccatctggccccagtgctgcaatgataccgcgagaccacgct



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FIG. 1. (CONTINUED)

caccggctccagatttatcagcaataaaccagccagccggaaggccgagcgcagaagtggctcctgcaactttatccgctcc
atccagctctattaattgttgccgggaagctagagtaagtgttcgccagttaatagtttgcgcaacgttggtggcattgctacaggca
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gcataattctcttactgtcatgccatccgtaagatgctttctgtgactggtagtactcaaccaagtcattctgagaataccgcccc
ggcgaccgagttgctcttgcccggtcaatacgggataatagtgtatgacatagcagaactttaaaagtgtcatcattggaaaa
cgttcttcggggcgaaaactctcaaggatcttaccgctgttgagatccagttcgatgtaaccactcgtgcacccaactgatctca
gcattctttacttaccagcgttctgggtgagcaaaaaacggaaggcaaatgccgcaaaaaagggaataaggcgacacg
gaaatgtgaatactcatactcttctttcaatattatgaagcatttatcagggttattgtctcatgagcggatacatattgaatgtat
ttagaaaaataaacaatatggggttcgcgacatttccccgaaaagtgccacctgacgtctaagaaaccattattatcatgacatt
aacctataaaaataggcgtatcacgaggcccttctgtctcgcggttcggtgatgacggtgaaaacctctgacacatgcagctcc
cggagacggtcacagcttctgtgaagcggatccgggagcagacaagcccgtcaggggcgctcagcgggtgttgccgggt
gtcggggctggcttaactatcgggcatcagagcagattgtactga

FIG. 2.

PGN100

ctagcatgaacacgattaacatcgctaagaacgacttctctgacatcgaactggctgctatcccggtcaacactctggctgaccatt
acggtagcgttttagctcgcgaacagttggcccttgagcatagttcttacgagatgggtgaagcacgctccgcaagatgttga
gcgtcaacttaaaagctggtgaggttgcggataacgctgcgccaagcctctcatcactaccctactccctaagatgattgcacgc
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caactcaacaagcgcgttagggcacgtctacaagaaagcattatgcaagttgtcaggtgacatgctcttaagggtctactcg
gtggcgaggcgtggtcttctgtggcataaggaagactctattcatgtaggagtacgctgcatcgagatgctcattgagtaaccgg
aatggttagcttacaccgccaaaatgctggcgtagtaggtcaagactctgagactatcgaactcgacactgaatacgtgaggct
atcgcaaccctgacaggtgcgctggctggcatctctccgatgttccaaccttcgtagttcctcctaagccgtggactggcattac
tggtggtggctattgggctaacggtcgtcgtcctctggcgctggtgcgtactcacagtaagaaagcactgatcgctacgaagac
gtttacatgcctgaggtgtacaagcgattaacattgcgcaaaacaccgcatggaaaatcaacaagaaagtcctagcggctgcc
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caatcggttaaggaaggttactactggctgaaaatccaggtgcaaacgtgctgggtgtcgataaaggtccgttccctgagcgc
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aagctgatttgggaatctgtgagcgtgacgggtgtagctgcggttgaagcaatgaactggcttaagtctgctgtaagctgctgg



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FIG. 2 (CONTINUED 1)

ctgctgaggtcaaagataagaagactggagagattcttcgcaagcggtgcgctgtgcattgggtaactcctgatggttccctgtgt
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gcttcccgaaggagaaagcgacaggtatccggttaagcggcaggggtcgaacaggagagcgcacaggggagcttcca
gggggaaacgcctggtatcttatagtcctgtcgggttcgccacctctgacttgagcgtcgattttgtgatgctgctcagggggg
cggagcctatggaaaaacgccaacgcggccttttacggttcttgccctttgtcgtccttctcctgctgctt
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FIG. 2. (CONTINUED 2)

ctagaaggctctagatgcattcgttgaaaatactcccggtgggtgcaaagagacgcagacggaaaatgtatctgggtctctttatt
gtgtacactacttttccatgtaccgaatgtgagtcgccctccttttgcaacaagcagctcgaatgttctagaaaaagggtggaaaata
gtataaataccggtgaaaataaataccgaacaacatttgctctaattgtgaaattagaaatcttcaactataatcatctcactggatc
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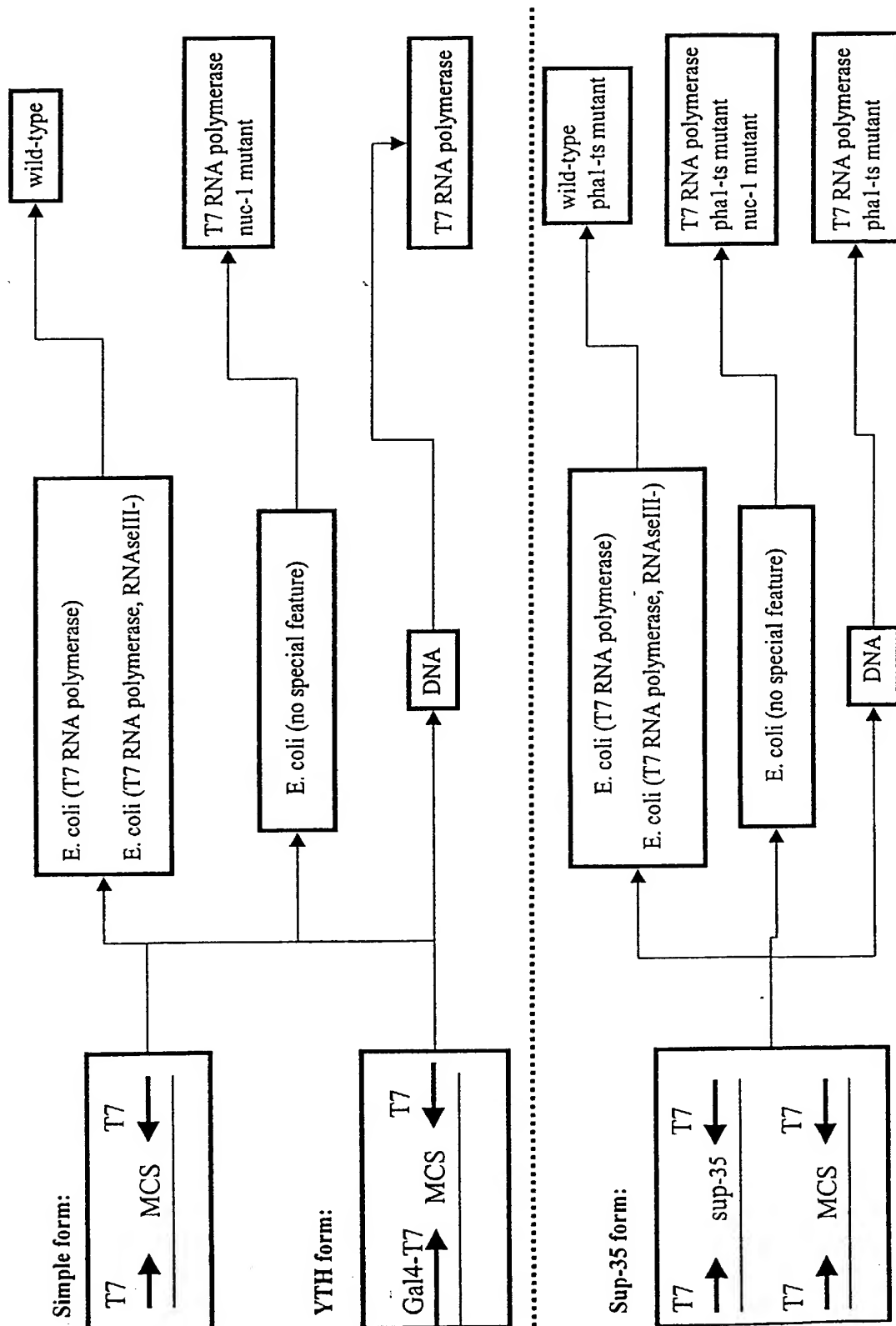
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FIG. 3.

C. ELEGANS STRAIN

BACTERIAL STRAIN
(only important phenotypes)

VECTOR:
(only important features)





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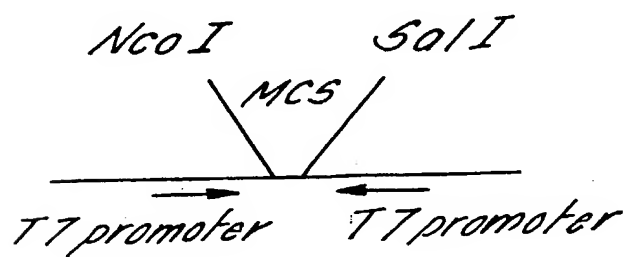
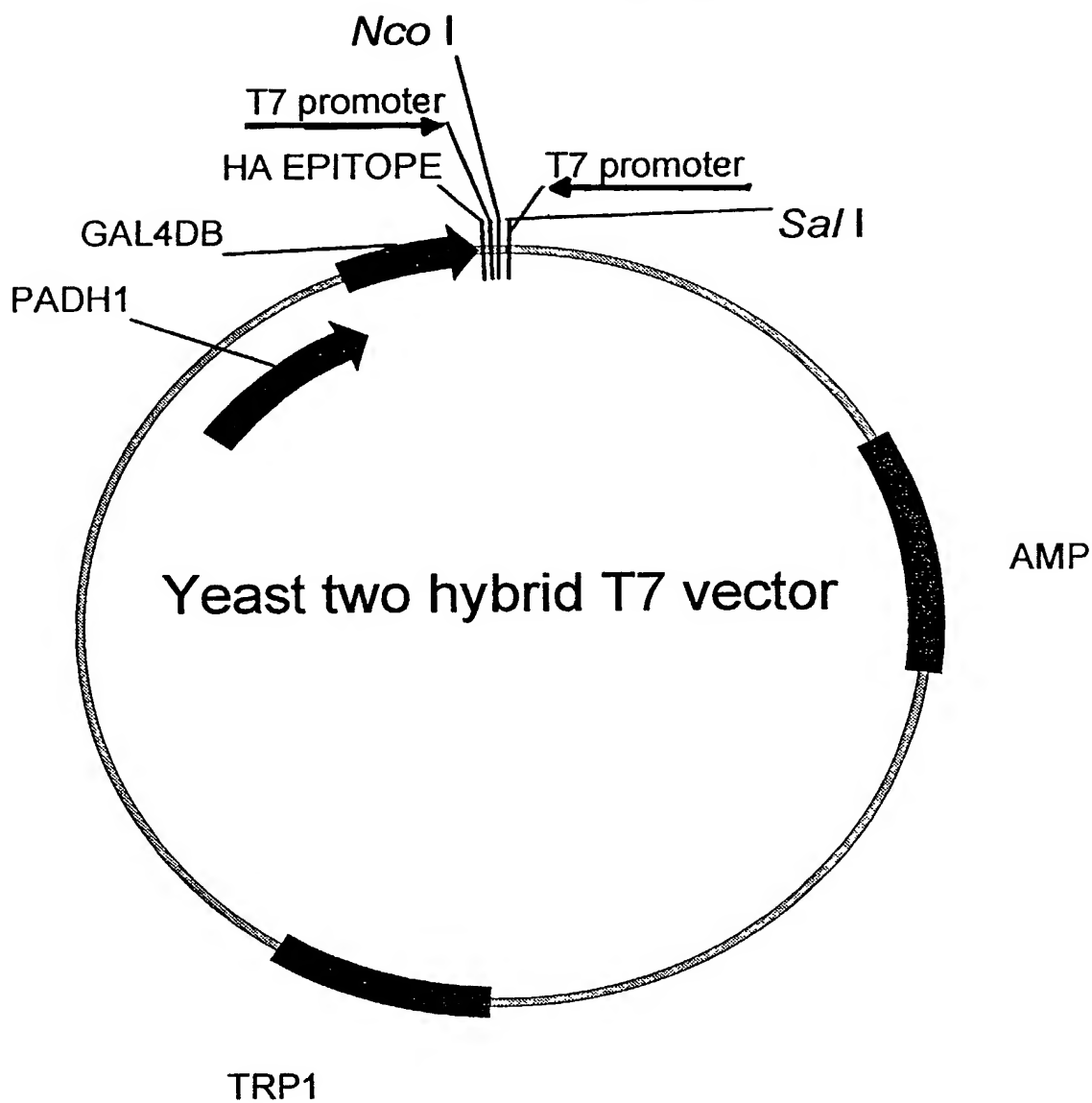
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FIG. 4.

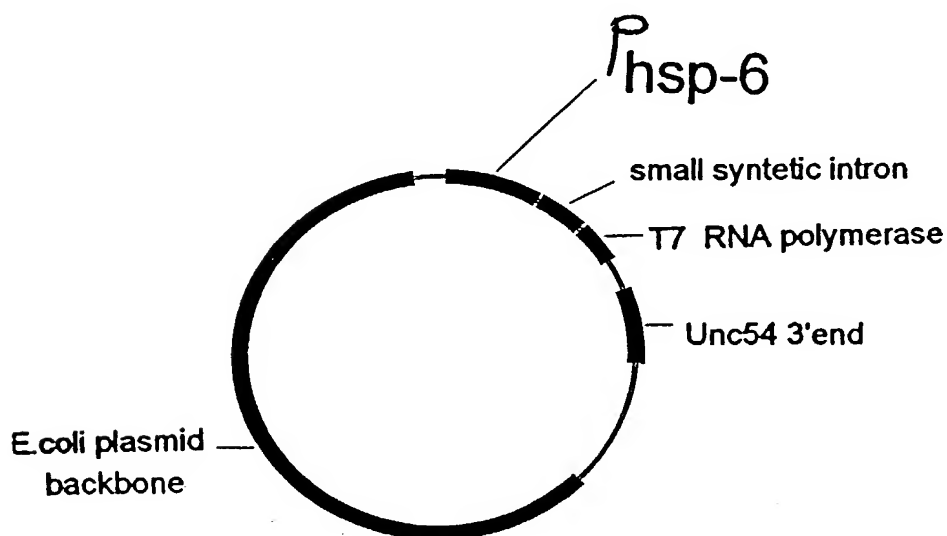
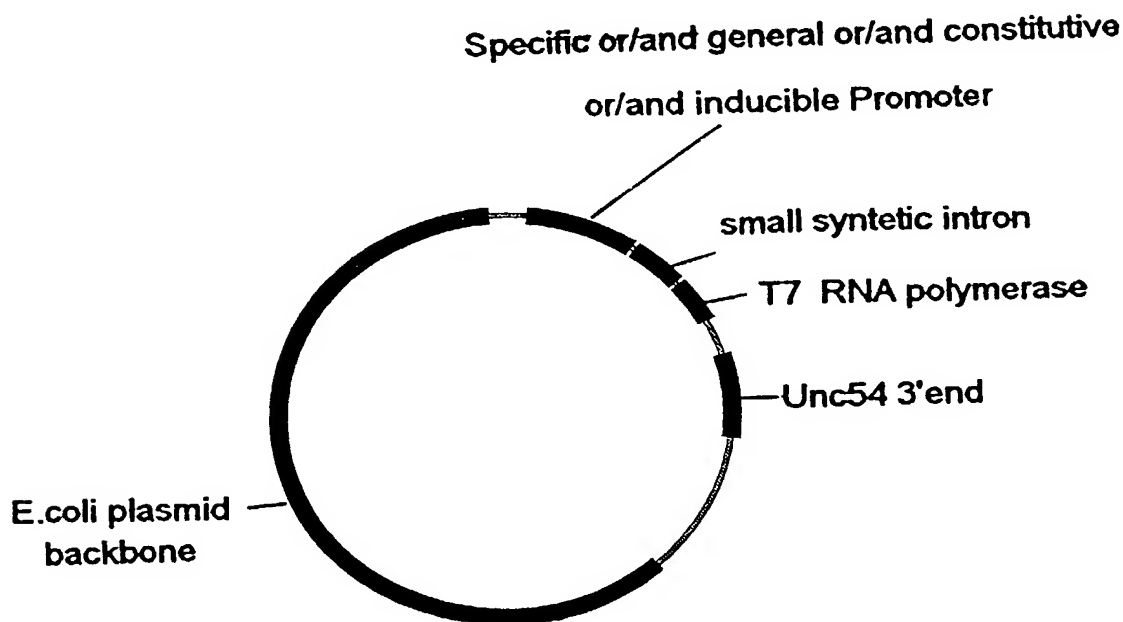




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FIG. 5.

General description of the C.elegans T7 RNA polymerase expression vector with 4 examples





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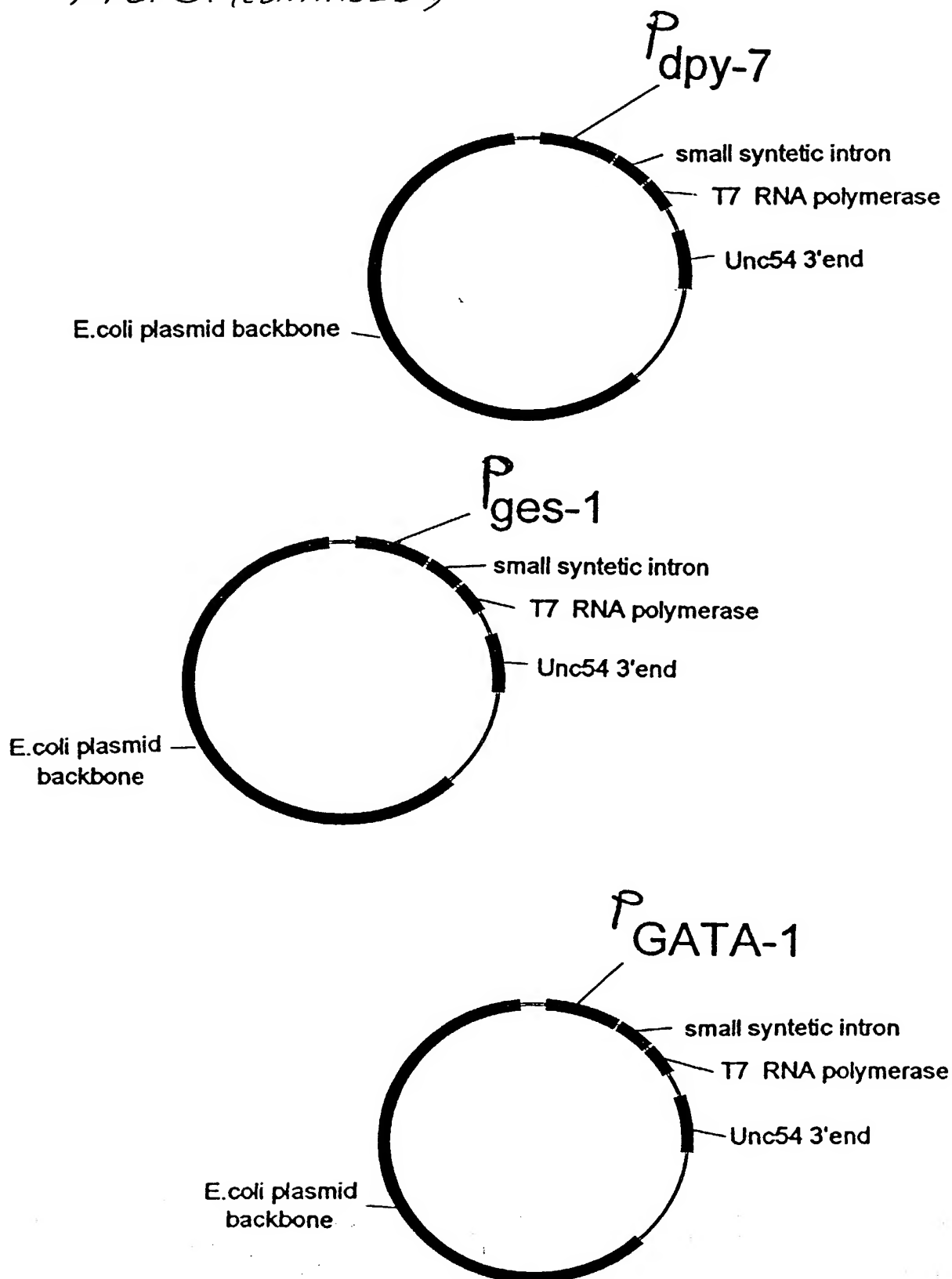
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FIG. 5. (CONTINUED)

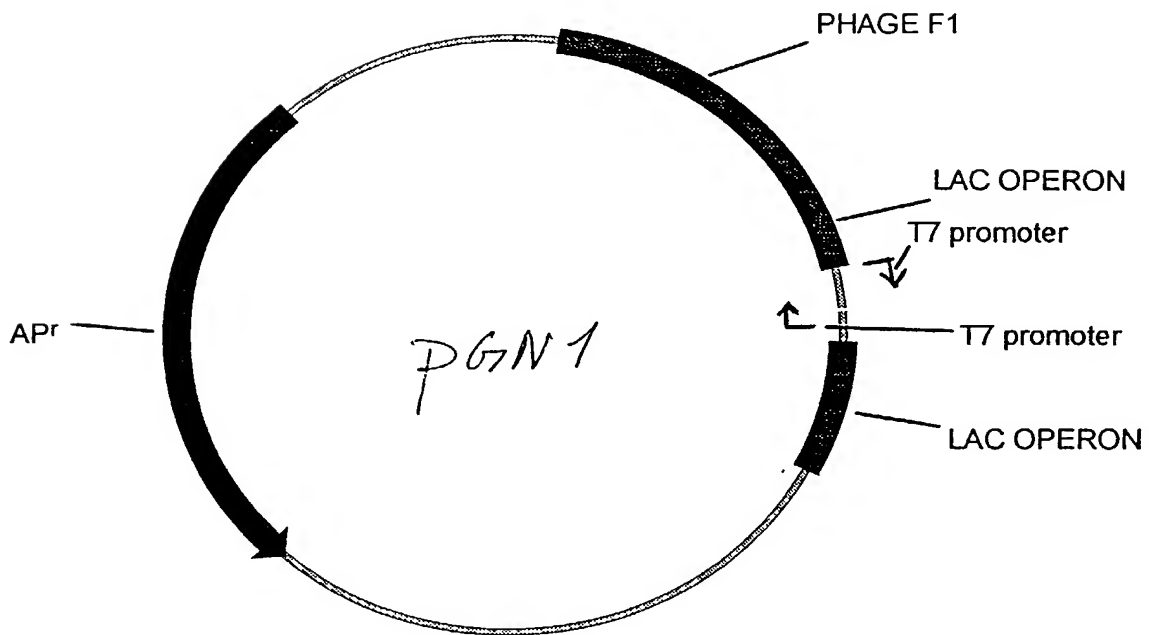




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FIG. 6.





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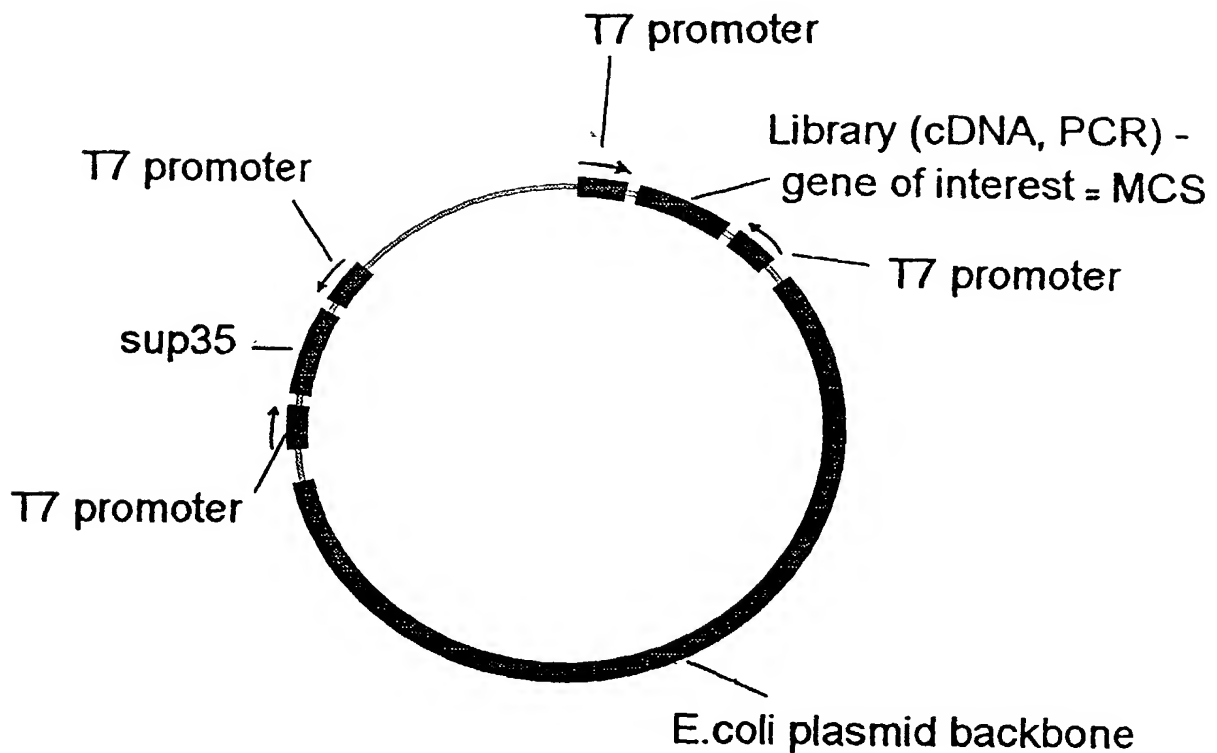
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FIG. 7



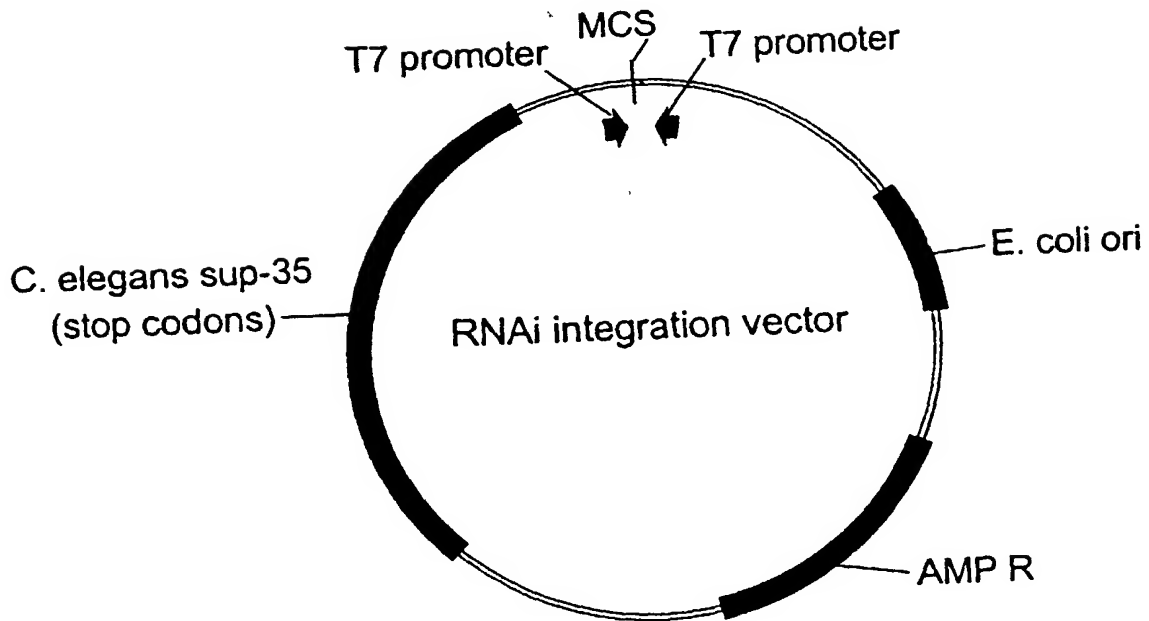
*enhanced vector for RNAi, producing
sup35 dsRNA and dsRNA of the library,
gene of interest or PCR product.*



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FIG. 8.

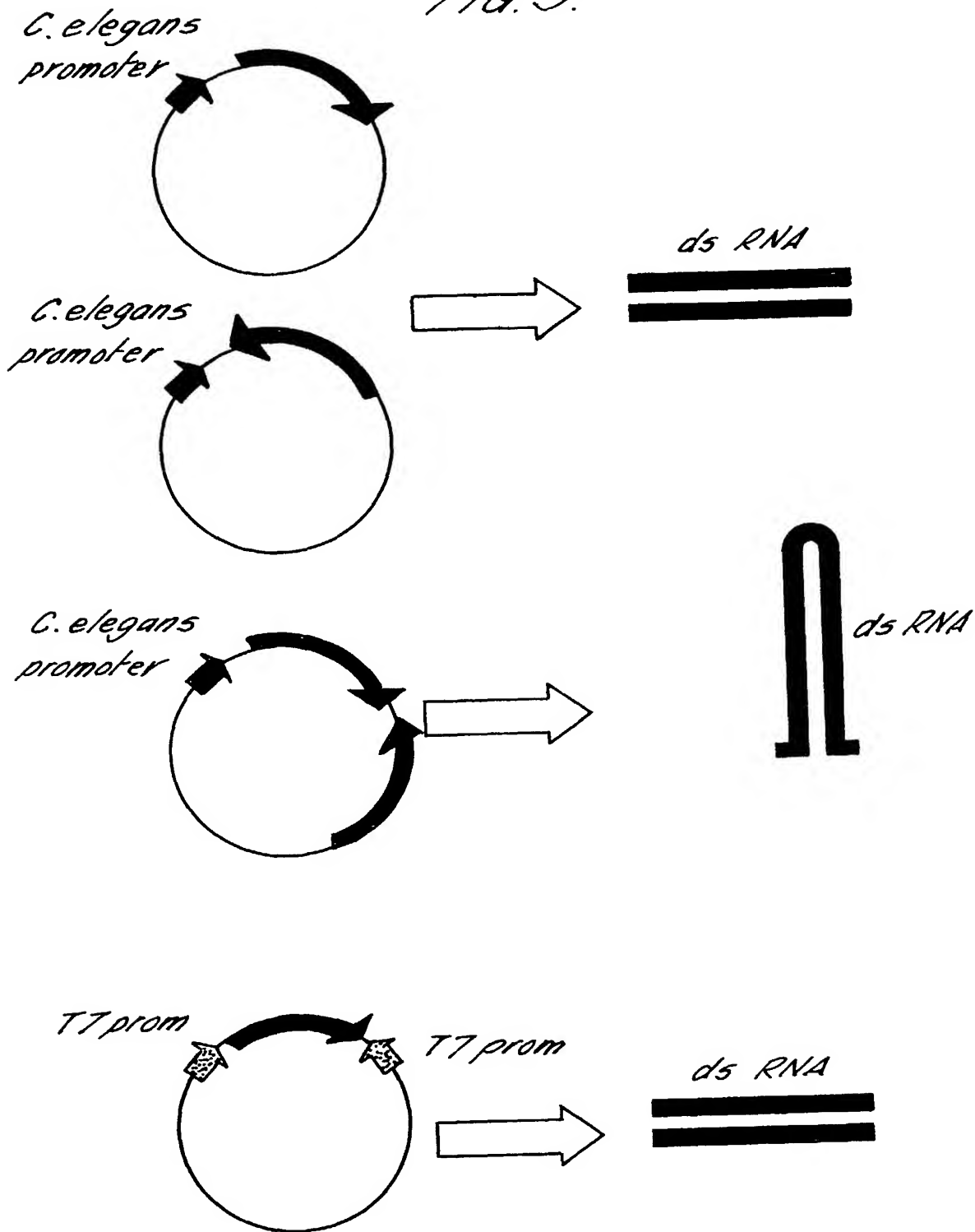




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FIG. 9.





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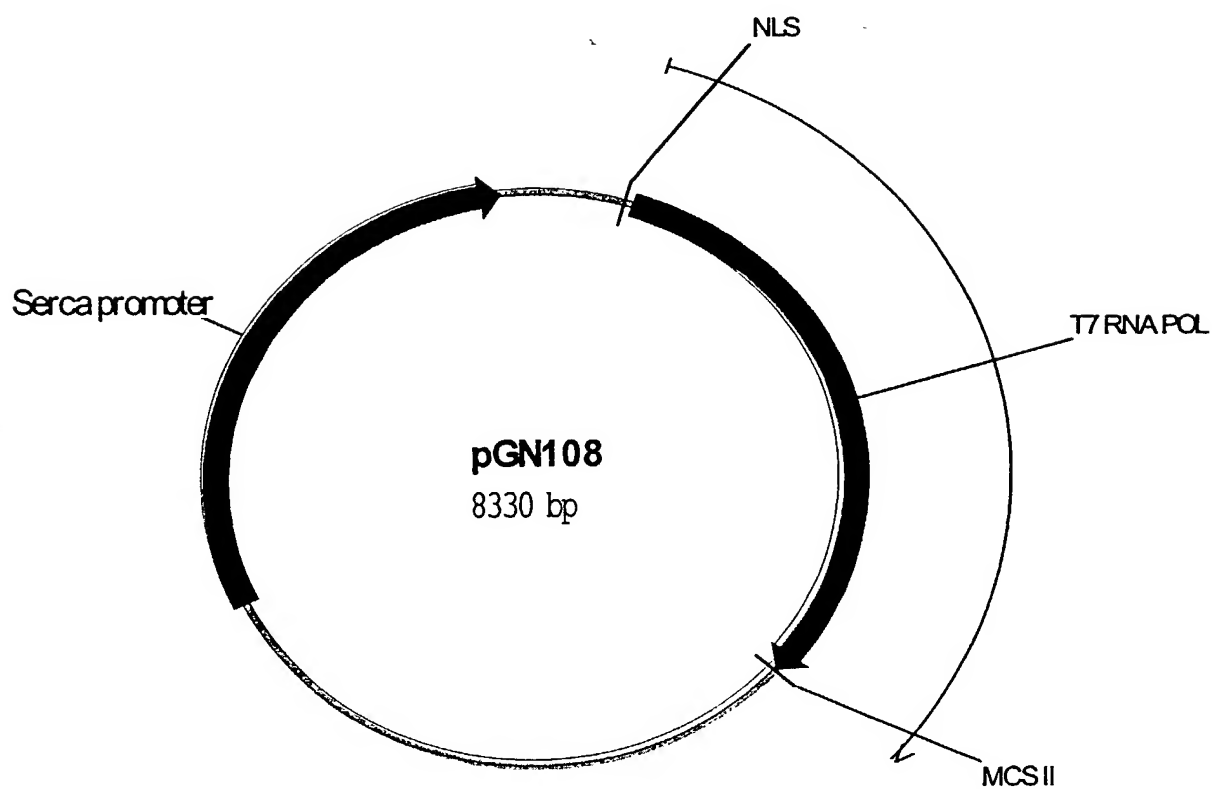
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FIG. 10.

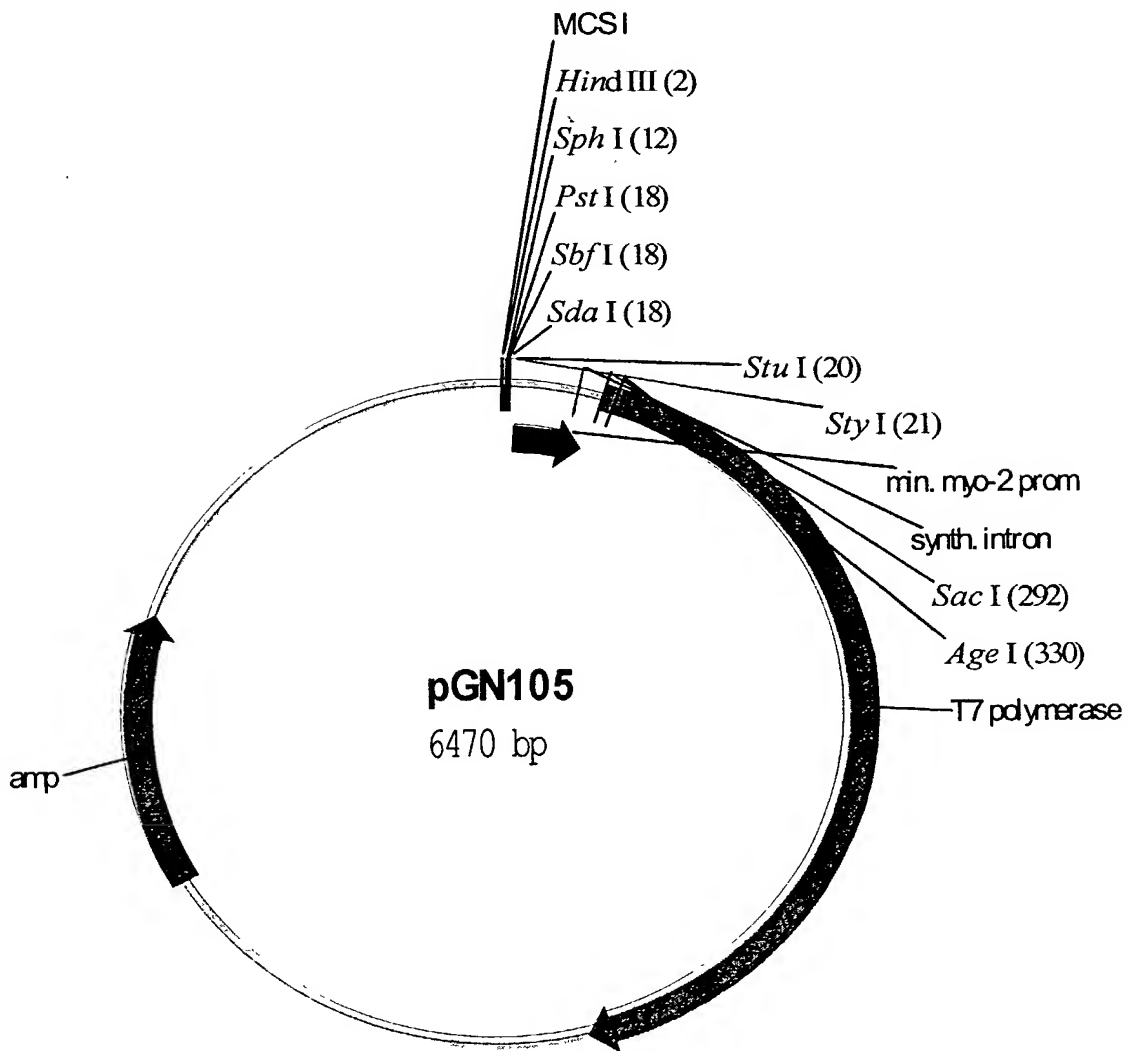




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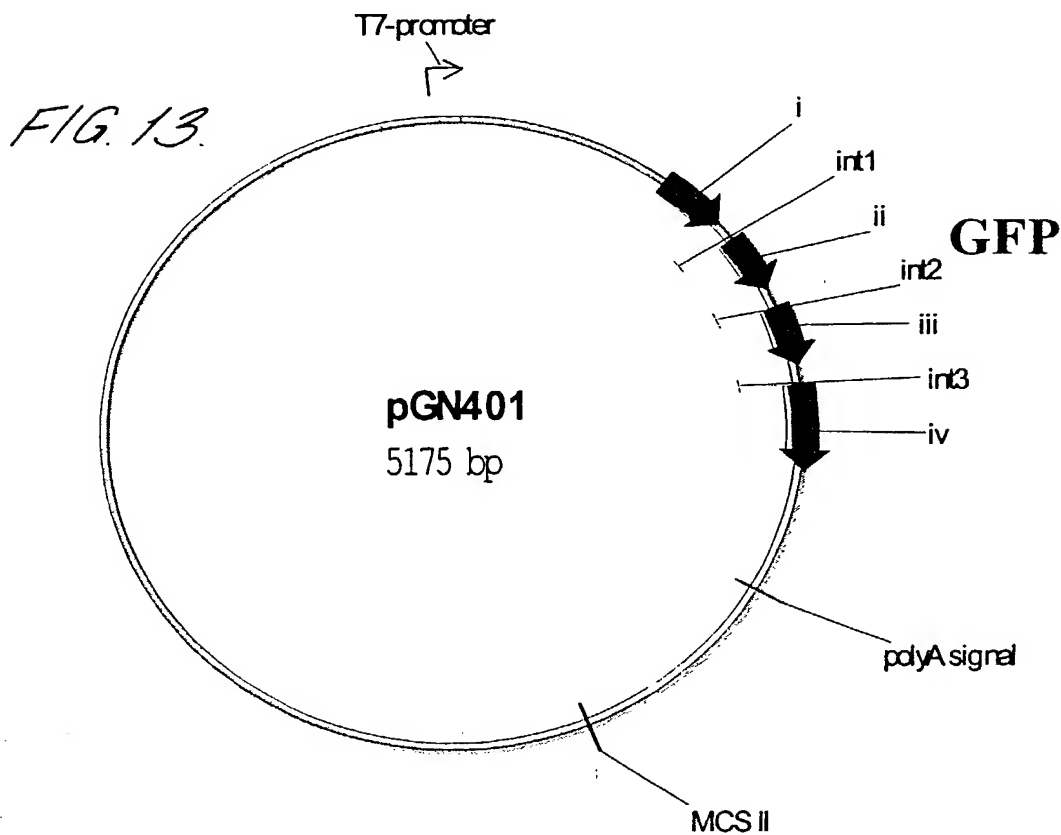
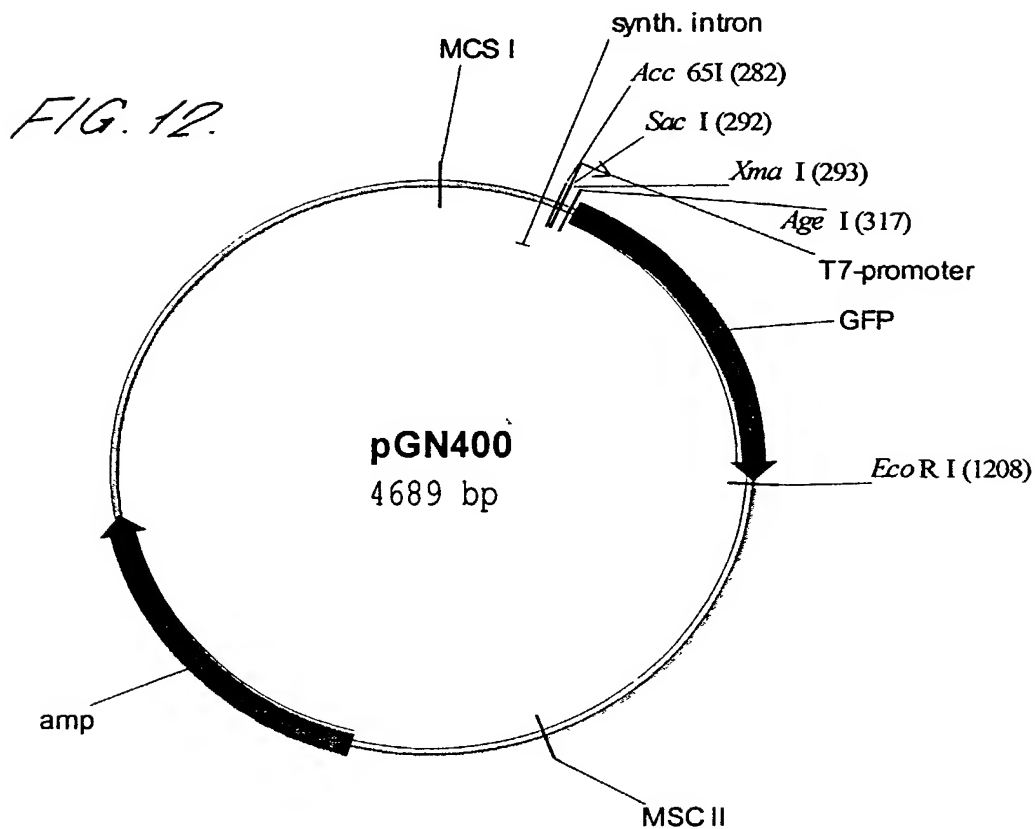
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FIG. 11.





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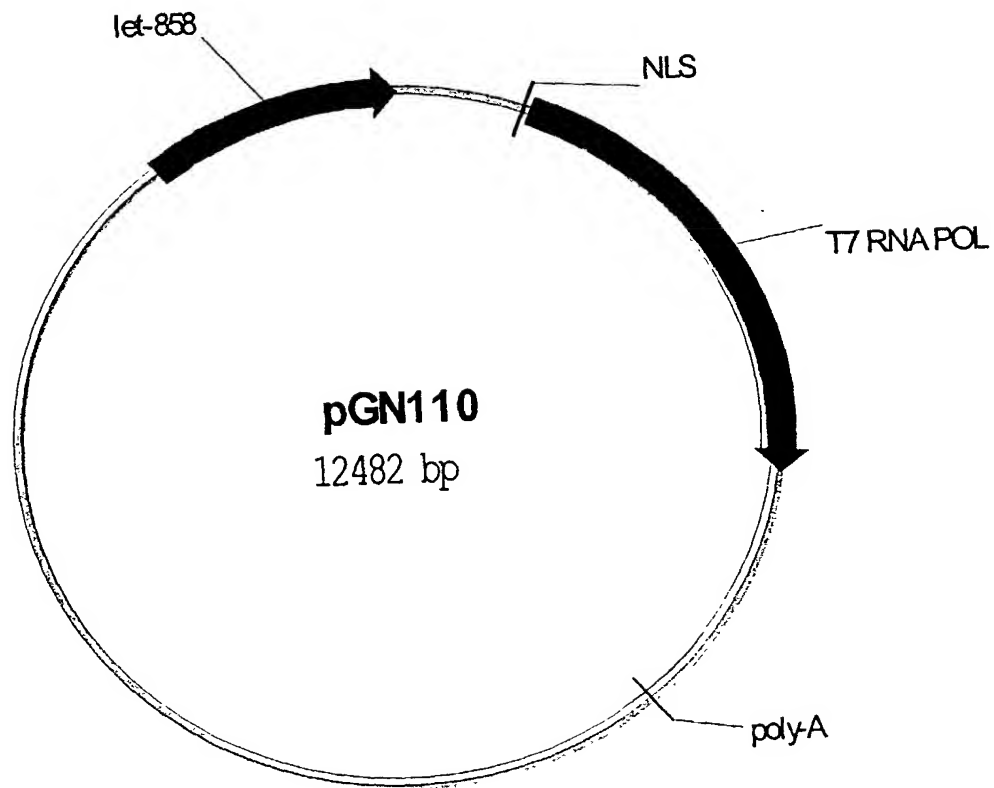




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FIG. 14.





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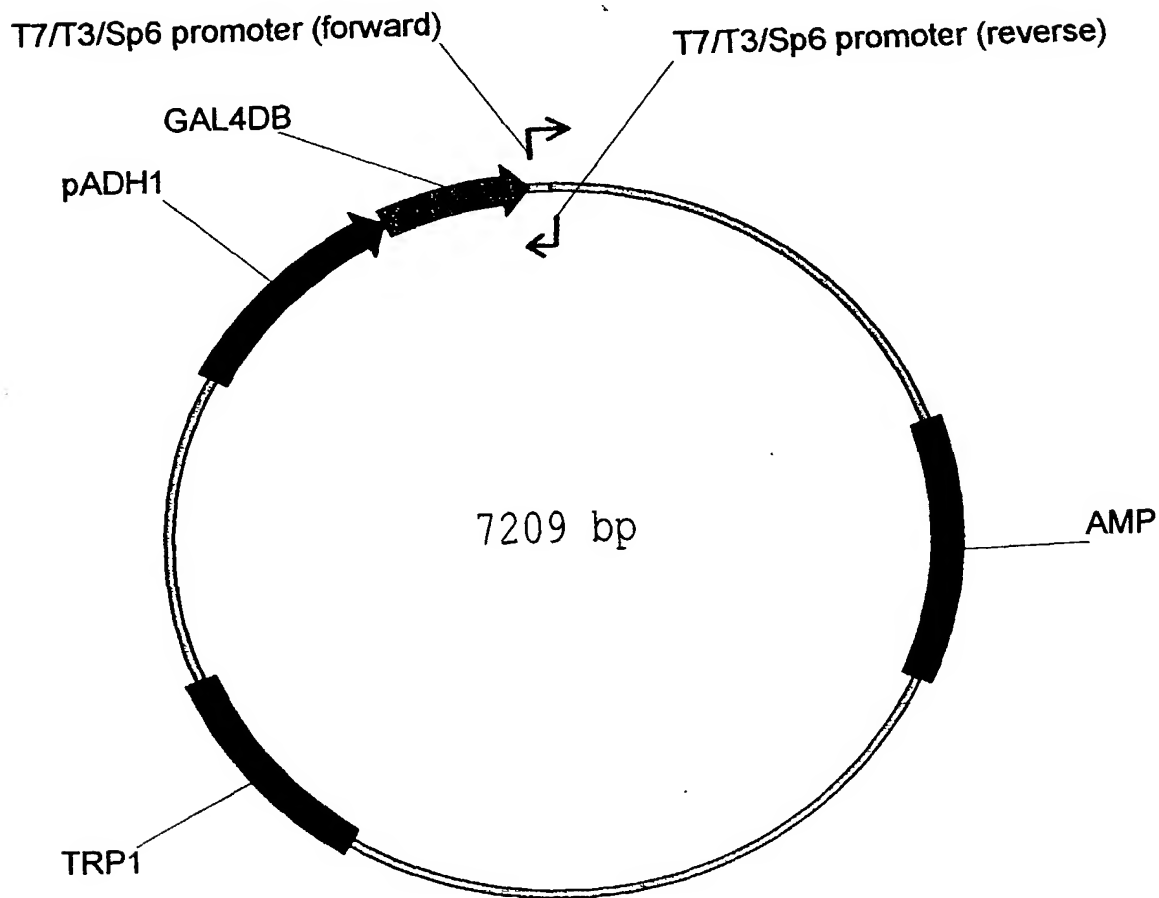
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FIG. 15.

pAS2* with Forward and Reverse T7/T3/Sp6



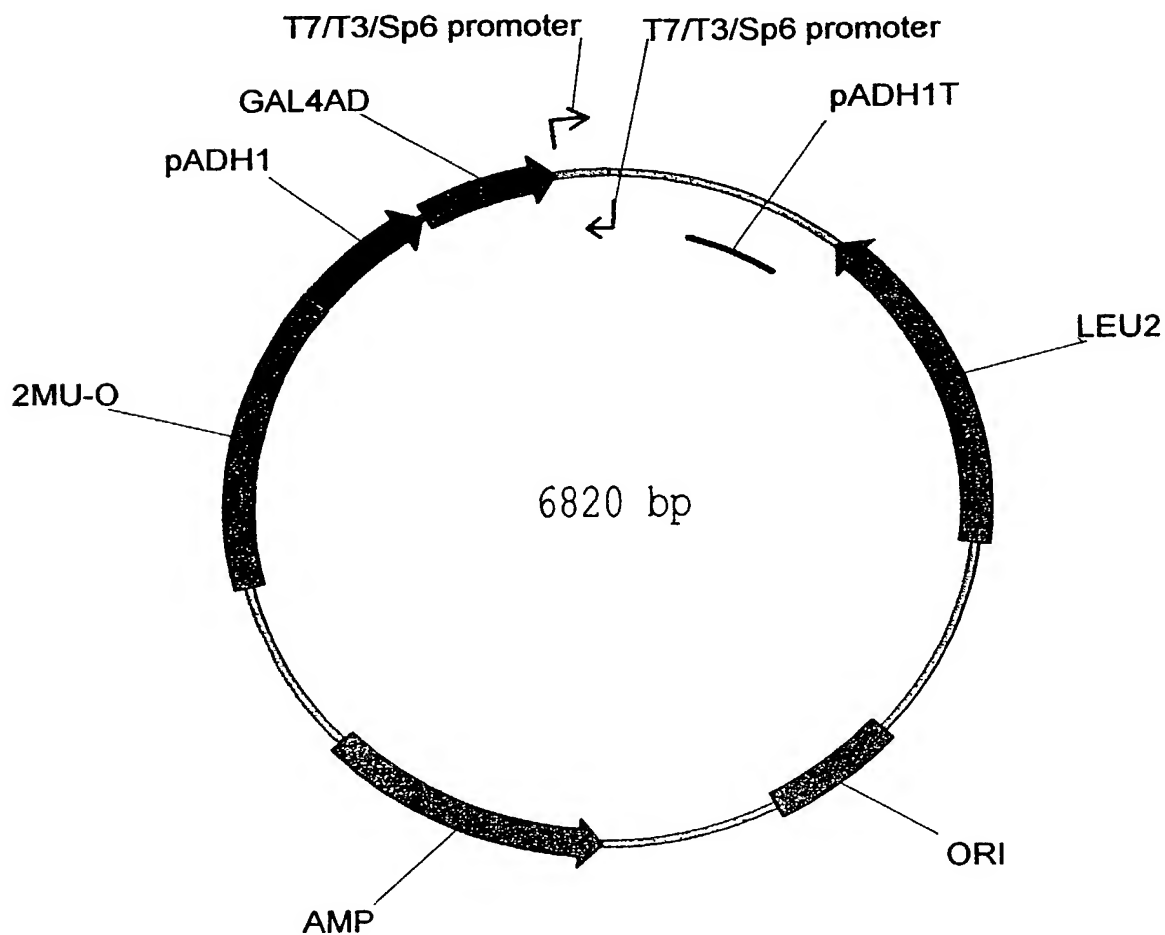


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FIG. 16.

pGAD424 with Forward and Reverse T7/T3/Sp6

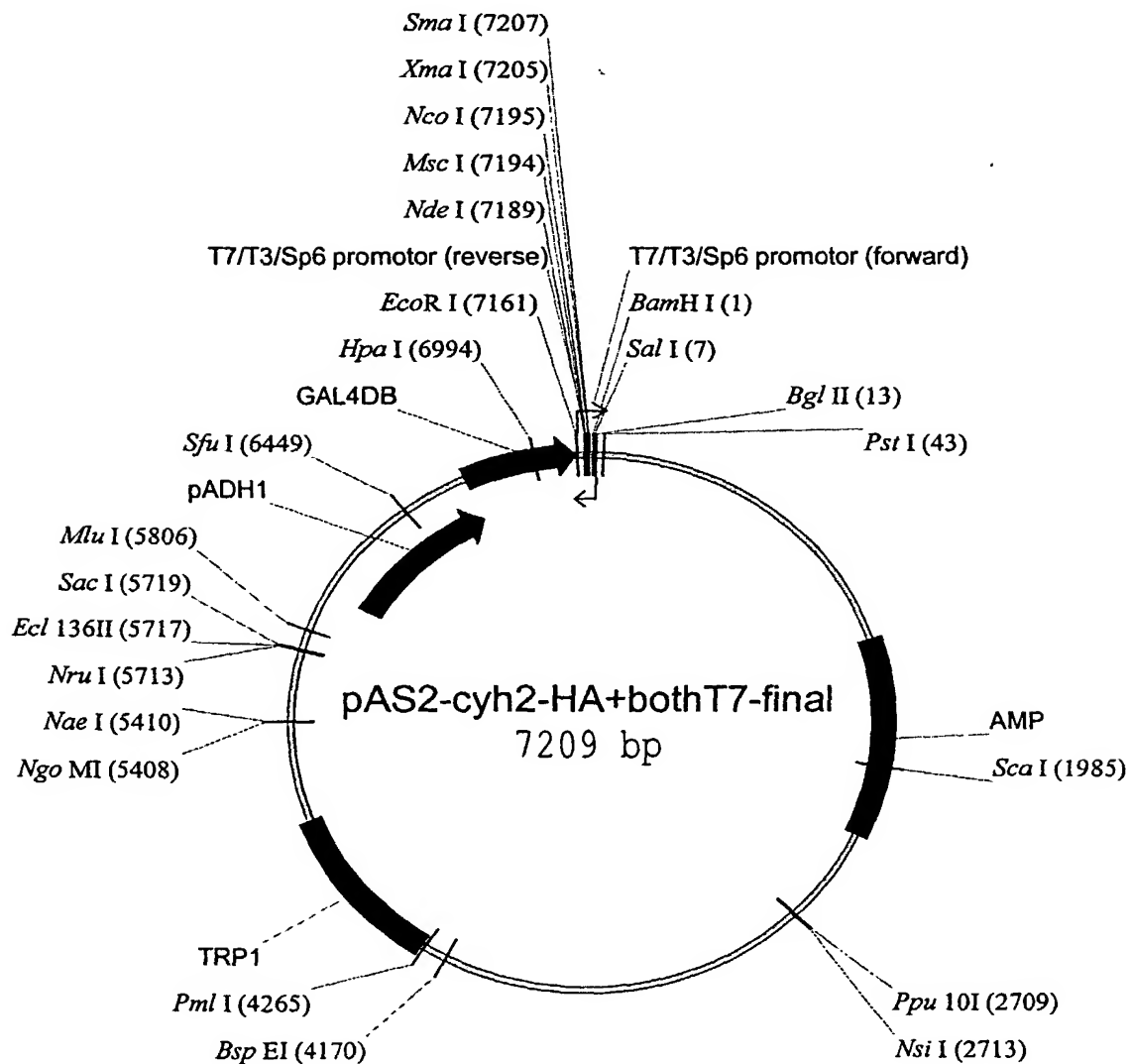




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FIG. 17.

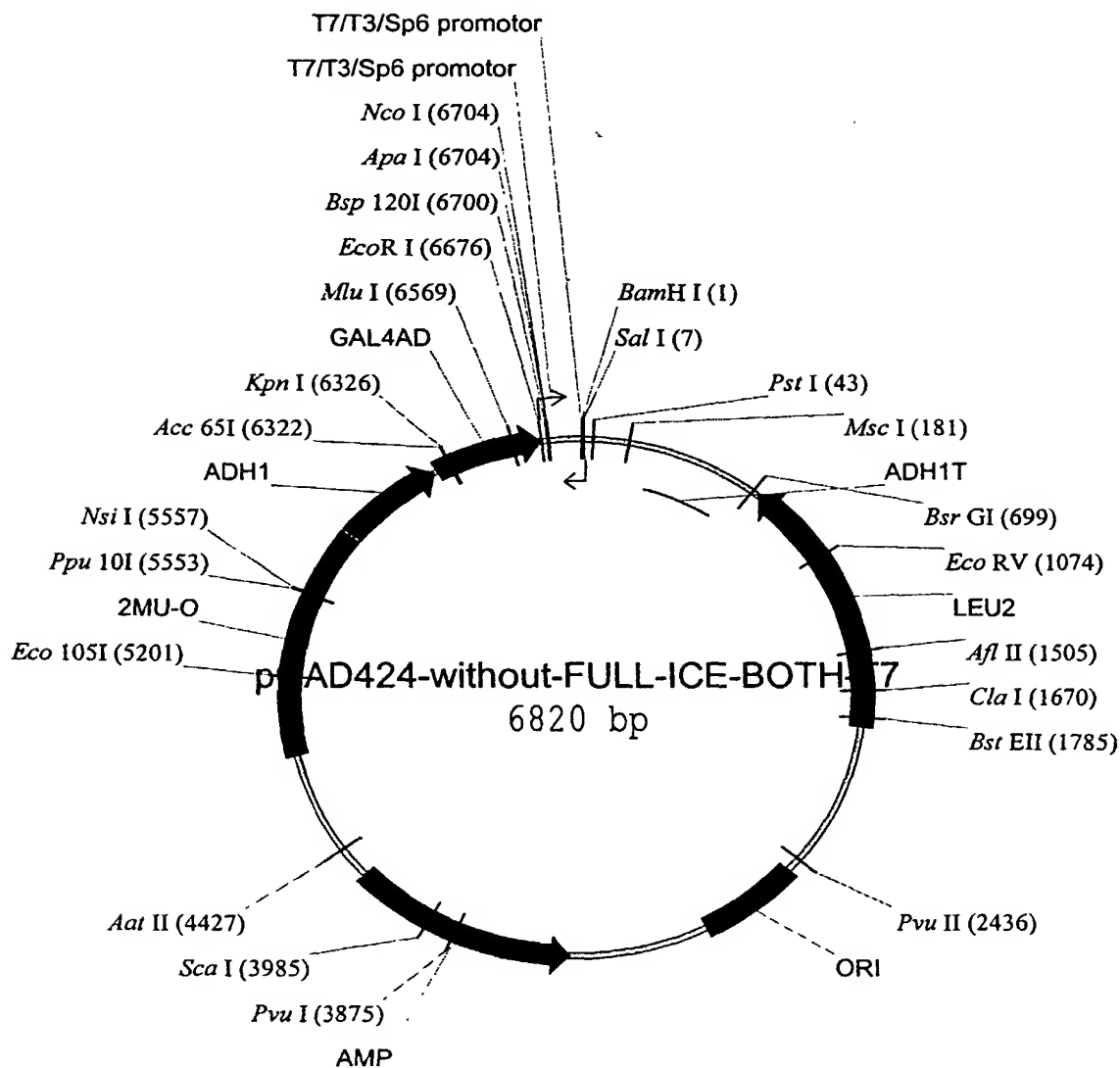




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FIG. 18.



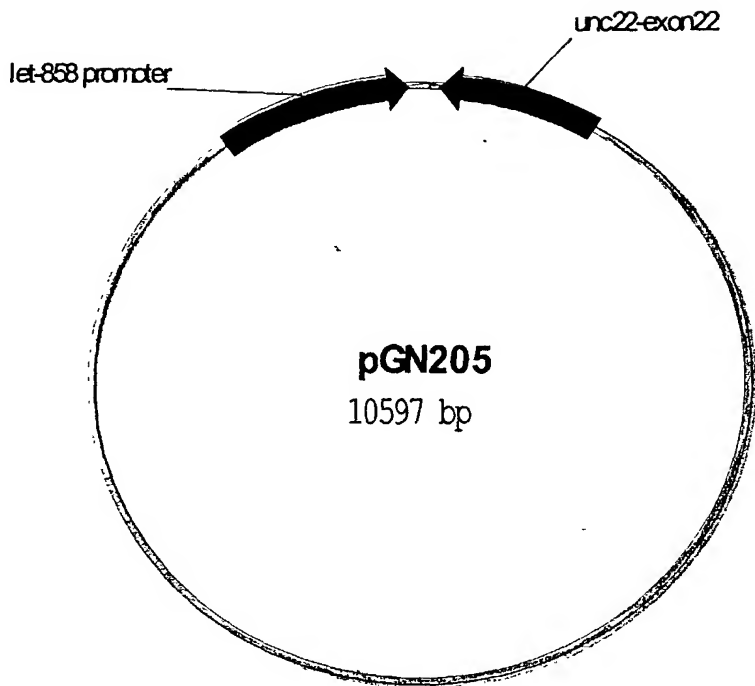


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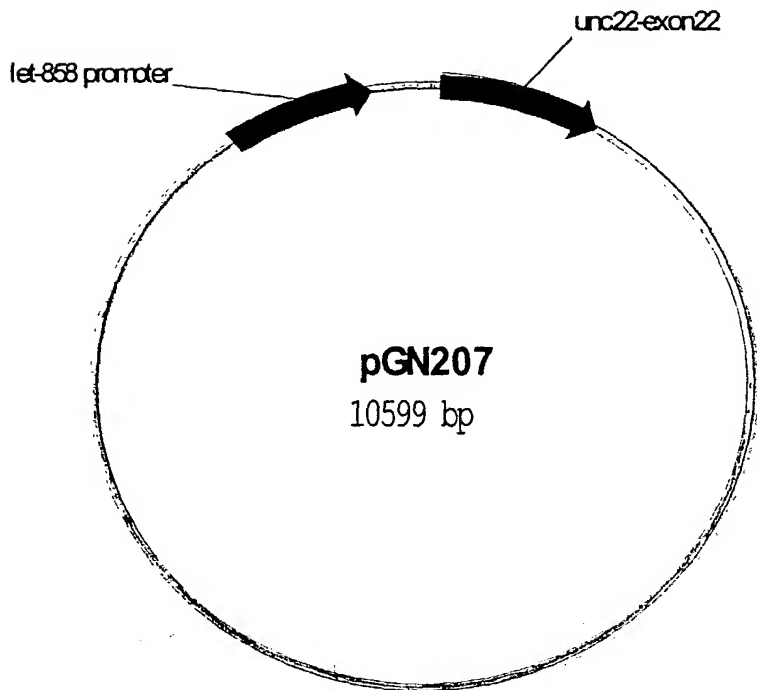
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FIG. 19.



a)



b)